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Production, Nucleons

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JPRS 15308

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DESCRIPTORS: Tobacco, Fermentation.

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*Tobacco.

(Agriculture, TT, v. 9, no. 1)

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- II. K-H-3084-a
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Chemical analysis.

(Chemistry--Analytical, TT, v. 9, no. 8)

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DESCRIPTORS: *Ammonia, *Taste, *Tobacco,
Cigarettes.

- I. Shakhnovskii, L. N.
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DESCRIPTORS: *Fermentation, Air, Acids, *Tobacco.

(Biological Sciences--Biochemistry, TT, v. 9, no. 2)

62-22547

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OTS 44-64-19895

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Order from SLA \$1.10 61-10895

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DESCRIPTORS: *Tobacco, *Smokes, *Cigarettes,
Particles, Measurement.

(Engineering--Sanitation, IT, v. 7, no. 4)

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Hydrolyzed Nicotine as an Index for Sensory
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5 pp.

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pp 14-17.

SLA 60-10813

Sci

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5 refs.

Order from OTS or SLA \$1.10 62-10908

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Another trans. is available from LC or SLA at \$1.80,
ph\$1.80 as 61-15172, CSIRO Trans-4941 [1960] [7]p.

DESCRIPTORS: *Tobacco, Chemical analysis, *Phenols,
Determination, Paper chromatography.

For abstract see Technical Translations 5: 287, 1961.

(Chemistry--Analytical, TT, v. 8, no. 1)

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Trans. of Tabak (USSR) 1959 [v. 20] no. 3, p. 55-59.

DESCRIPTORS: "Tobacco, Processing, Temperature.

(Agriculture--Plant Cultivation, TT, v. 8, no. 6)

62-17779

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[1962] 10p.
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p. 50-52.

DESCRIPTORS: *Tobacco, *Aging, *Infrared
radiation.

(Agriculture--Plant Cultivation, TT, v. 8, no. 4)

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DESCRIPTORS: Tobacco, Processing, Temperature.

(Agriculture--Plant Cultivation, TT, v. 10, no. 7)

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FILTERS. [1962] 6p
Order from OTS, SLA, or ETC \$1.10 TT-64-10697

Trans. of Tuhak (USSR) 1959, v. 20, no. 4, p. 25-27.
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(Chemistry, TT, v. 12, no. 2)

TT-64-10697

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II. Sirotenko, A. A.

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LOGICAL PROPERTIES OF TOBACCO RAW
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K-H 10789

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DESCRIPTORS: *Tobacco, Chemical analysis.

(Chemistry--Analytical, TT, v. 9, no. 10)

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- II. Nikolaeva, L. A.
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DESCRIPTORS: *Tobacco, Chemical analysis.

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STORAGE PROTEINS IN TOBACCO LEAVES DUR-
ING THEIR GROWTH AND IN STARVATION
METABOLISM (Izmeneniya v Sootnoshenii Konstitutsionnykh i Zapasnykh Belkov v Tabachnom Liste vo Vremya yego Rosta i v Protseesse Golodnogo Obmena)
tr. by M. Slade. [1960] 9p. (foreign text included)
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Order from LC or SLA m\$1.80, ph\$1.80 61-15975

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(Biological Sciences--Botany, TT, v. 5, no. 8)

61-15975

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2. Proteins--Plant metabolism
1. Sirotenko, A. A.
- II. Mashkovtsev, M. F.
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AS A FUNCTION OF ITS FRACTIONAL COMPOSITION. [1961] 7p. 1 ref.

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DESCRIPTORS: *Tobacco, Fibers, Physical properties, Density, Fractionation, *Cigarettes, Preparation, Tests.

The investigation of the volumetric properties of fibers as a function of their size and observations in production indicate that the fibrousness of cut tobacco may be characterized by the content of the fraction retained on the 2-mm sieve.

(Agriculture--Plant Cultivation, TT, v. 6, no. 12)

61-20016

I. Dorokhov, P. K.
II. Akimushkina, A. N.

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Asmaev, P. G.
NEW FERMENTATION CONDITIONS FOR CIGARETTE
TOBACCO. [1962] 16p.
Order from K-H \$20.00

K-H 11480-b

Trans. of Tabak (USSR) 1960 [v. 21] no. 2, p. 34-46.

DESCRIPTORS: *Tobacco, *Cigarettes, *Fermentation.

- I. Asmaev, P. G.
- II. K-H-11480-b
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

(Biological Sciences--Biochemistry, v. 9, no. 2)

Office of Technical Services

Asmaev, P. G.
NEW FERMENTATION CONDITIONS FOR CIGARETTE TOBACCO. [1962] 16p. 7 refs.
Order from OTS or SLA \$1.60 62-18836

Trans. of Tabak (USSR) 1960, v. 21, no. 2, p. 43-46.
Another trans. is available from K-H \$20.00 as
K-H-11480-b [1962] 16p.

DESCRIPTORS: *Cigarettes, *Tobacco, Smokes,
*Fermentation.

(Biological Sciences--Biochemistry, TT, v. 9, no. 5)

62-18836

I. Asmaev, P. G.

Office of Technical Services

Asmaev, P. G. and Mokhnachev, I. G.
CONTENT IN TOBACCO OF NON-CARBOHYDRATE
CARBONYL SUBSTANCES. [1963] [9]p. 10 refs.
Order from UTS or SI A \$1.10 61-20584

Trans. of ~~IT~~ (USSR) 1960, v. 21, no. 3, p. 35-39].

DESCRIPTORS: *Tobacco, *Carbonyl radicals,
*Fermentation, Amino acids, Temperature, Chemical
analysis.

The investigation of the fermentation of tobacco at
various temperatures from the point of view of the
dynamics of change of the content of carbonyl substances
on non-carbohydrate character showed that the accumu-
lation of these substances is more pronounced during
the fermentation at low temperatures (30° - 35° C)
than during high temperature fermentation (50° - 70°C).
(Author)
(Biological Sciences - Biochemistry, IT, v. 10, no. 7)

61-20584

I. Asmaev, P. G.
II. Mokhnachev, I. G.

BB/116

Office of Technical Services

Shakhnovskiy, L. N.
THE CHEMICAL COMPOSITION OF THE SMOKE OF
SOME TOBACCO PRODUCTS. [1960] 9p.
Order from L.C. or SLA m\$1.80, ph\$1.80 61-10698

Trans. of *Tekhnika* (USSR) 1960 [v. 21] no. 4, p. 17-20.

An investigation of 150 samples of cigarettes, manufactured in January, 1959, covering the production of most USSR factories showed the following limits of variation: free nicotine, 1.4 to 26.3 mg; total nicotine, 10.8 to 43.5 mg; ammonia, 0.0 to 6.1 mg; pyridine, 2.9 to 21.1 mg; 2,4 dinitrophenylhydrazones, 12.5 to 45.0 mg; acetic acid, 4.3 to 74.0 mg; and pH 4.4 to 7.0. It is concluded that raw tobacco quality can be objectively characterized by determining in its smoke such indicators as the smoke pH, free and combined nicotine, acidity determined by titration, total strong and weak bases, and carbonyl compounds.

(Chemistry--Analytical, TT, v. 5, no. 12)

61-10698

1. Tobacco--Chemical analysis
2. Smokes--Chemical analysis
1. Shakhnovskiy, L. N.

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Shokhnovskii, L. N.
CHEMICAL COMPOSITION OF SMOKE OF SMOKING
PRODUCTS OF DIFFERENT GRADES. [1962] 9p.
Order from K-H \$11.25 K-H 10997-b

Trans. of Tabak (USSR) 1960, v. 21, no. 4,
p. 117-120.

DESCRIPTORS: *Chemical analysis, *Smokes,
Cigarettes, *Tobacco

(Chemistry--Analytical, TT, v. 8, no. 8)

62-17628

- I. Shokhnovskii, L. N.
- II. K-H-10997-b
- III. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

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(DC-2700/79)

New Machines for Transplanting Tobacco and
Makhorka, by G. P. Shemayev, 9 pp.

RUSSIAN, per, Tabak, No 1, 1961, pp 27-32.

JPRS 8741

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(DC-2700 (70)).

The SKVD-4 Transplanting Machine, by A. N. Dobyshev,
et al, 2 pp

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JTRS 2741

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Econ - Technological, Farm Machinery

27 Apr 61

(NY-6501)

Raising the Raw-Material Base of the
Tobacco Industry to Meet Rising Needs,
7 pp.

RUSSIAN, per, Tabak, Vol XXII, No 3,
1961, pp 42-45.

JPRS 11210

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Colourimetric Method for the Quantitative Determination
of Nicotine in Tobacco, by M.F. Mashkovtsev, A.A.
Sirotenko.

RUSSIAN, ~~per~~, Tabak, No 4, 1961, pp 48-52
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Sci -
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The Study of Aromatic Substances in Tobacco, by V. Chenikov,
I. Tsonev.
RUSSIAN, per, Tabak, Vol XXIII, No 2, 1962, pp 47-52.

CSIRO/No 6249

Sci - Biol

Feb 64

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Chenikov, V. V. and Tsonev, I. K.
INVESTIGATION OF THE AROMATIC SUBSTANCES
OF TOBACCO [1962] 7p. 8 refs.
Order from OTS or SLA \$1.10

63-10669

Trans. of Tabak (USSR) 1962, v. 23, no. 3, p. 49-53.

DESCRIPTORS *Tobacco, *Odors, Smokes, Smell

The aromatic properties of tobacco depend principally on the carbonyl-alcoholic fraction of the benzene extract from tobacco. This fraction probably consists of five high molecular weight substances, insoluble in syrupy phosphoric acid and non-volatile with steam. It is very probable that one of these substances is an aldehyde, three of them are ketones containing the phenanthrene nucleus in their molecules, and one is a high molecular weight monohydric unsaturated primary or secondary alcohol. (Author)
(Chemistry--Analytical, TT, v. 9, no. 11)

63-10669

I. Chenikov, V. V.
II. Tsonev, I. K.

Office of Technical Services

Separation of the Substances in the Neutral
Fraction of the Tar Complex of Tobacco, by
V. V. Chernikov, et al,
RUSSIAN, per, Tobak, Vol XXV, No 1, 1964,
pp 43-46.
NIL RTS 2755 (On Loan or Purchase)

Sci-Chem
Mar 67

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Equipment for the Continuous Fermentation of
Tobacco, by A. M. Kelleev.

RUSSIAN, per, Tabak, Vol 25, 1964, pp 48-53.

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Sci - Biol & Med

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Investigation of the Properties of the Neutral
Fraction of the Tar Complex of Tobacco, by
V. V. Chenukov, et al,
RUSSIAN, per, Tabak, Vol XXV, No 2, 1964,
pp 57-60.
MLL RTS 2754 (On Loan or Purchase)

Sci-Chem

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Tables of Library Classification for Large Libraries,
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RUSSIAN, bk, Tablitsy Bibliotekhnoy Klassifikatsii
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ID 214930

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Metals and Metal Products, by I. S. Davydov,
I. B. Oculov, 19 pp.

RUSSIAN, Dr, Tablitsy Dlya Podscheta Vesa
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431 pp.

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RUSSIAN, mono, Tablitsy Funktsii Raspredeleniya i
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*Pergamon per OTS

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TABLES OF THOMSON FUNCTIONS AND THEIR
FIRST DERIVATIVES. Mathematical Tables Series,
v. 13. [1961] 430p.
Order from PP \$20.00

Trans. of mono. [Tablitsy Funktsii i ikh
Pervyykh Proizvodnykh, Moscow, 1960].

DESCRIPTORS: *Special functions, Tables.

(Mathematics, TT, v. 7, no. 3)

62-12249

- I. Nosova, L. N.
- II. Title: Mathematical...
- III. Pergamon Press, Inc.,
New York

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Tables and Nomograms for the Calculation of
Results of Hydrochemical Analysis, by I. Ya.
Sokolov, 68 pp.

RUSSIAN, M., Tablitsy i Nomogrammy dlya Rascheta
Rezultatov Gidro-khimicheskikh Analizov, 1950,
68 pp.

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Vol III, No 11

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Tables of Speed of Sound in Sea Water, by L. S.
Bark, P. P. Ganson, N. A. Meister.

RUSSIAN, monograph, Tablitsy Skorosti Zvuka v
Morskoi Vode, 1961, 182 pp.

ATS

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31 May 62
Vol 7, No 7

Tables of Sound Speed in Sea Water, by L. S. Bark,
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RUSSIAN, ^{sample}~~see~~, Tablitsy Strel'by, No 240, 3rd
Edition, publ by Military Publ House, Moscow,
1945.

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Chushkin, P. I. and Shulishnina, N. P.
SUPERSONIC FLOW AROUND BLUNT CONES: TABLES
[1962] 46p. 8 refs.
Order from MDF \$9.50

Trans. of mono. Tablitsy Sverkhzvukovogo Tekheniya
Okolo Zatuplennykh Konusov, Moscow, 1961.

DESCRIPTORS: *Blunt bodies, Conical bodies, Aerodynamic configurations, Supersonics, *Supersonic flow, *Tables.

I. Chushkin, P. I.
II. Shulishnina, N. P.
III. Friedman, Morris D.,
San Jose, Calif.

(Mechanics--Aerodynamics, TT, v. 9, no. 6)

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TABLES OF THERMODYNAMIC FUNCTIONS OF
AIR (FOR TEMPERATURES OF 12,000 TO 20,000°K
AND PRESSURES OF 0.001 TO 1000 ATMOSPHERES).
Book 1 of Thermodynamic Properties of Air at 1000 to
20,000°K and 0.001 to 1000 Atm. 1962. 230p.
Order from ATS \$16.50. set of 3/\$38.25

Trans. of mono. [Tablitsy Termodynamicheskikh
Funktsii Vozdukh dlya Temperatur ot 12,000 do
20,000°K i Davlenii ot 0,001 do 1000 Atmosfer,
Moscow, 1959]

DESCRIPTORS: *Air, *Thermodynamics, Tables,
Functions

Contents:
Description of Tables
Tables of h , u , s , μ , c_p , c_v , γ and a for Air
(Physics--Thermodynamics, TT, v. 7, no. 4) (over)

- I. Predvoditelev, A. S.
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TABLES OF THERMODYNAMIC FUNCTIONS OF
AIR (FOR TEMPERATURES OF 6000 TO 12,000° K
AND PRESSURES OF 0.001 TO 1000 ATMOSPHERES).
Book 2 of Thermodynamic Properties of Air at 1000 to
20,000° K and 0.001 to 1000 Atm. 1962. 302p.
Order from ATS \$21.75, set of 3/\$38.25

Trans. of mono. [Tablitsy Termodynamicheskikh
Funktsii Vozdukha dlya Temperatur ot 6000° do
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Moscow, 1957. 301p.]

DESCRIPTORS: *Air, *Thermodynamics, Tables,
Functions

Contents:

Description of Tables

Tables of h , u , s , μ , c_p , c_v , γ and a

(Physics--Thermodynamics, TT, v. 7, no. 4) (over)

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- I. Predvoditelev, A. S.
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Office of Technical Services

Tables of Thermodynamic Values of O, N, O, and
Ar in the Atomic and Ionized States over the
Temperature Range of 200-20,000°K at Pressures
of 10^{-5} - 10^{-3} Atmospheres, by N. N. Osipovskiy,
E. V. Semakova.

RUSSIAN, mono, Tablitsy Termodinamicheskikh
Yabizheniy O, N, O, Ar v Atomarnom i Ionizovannom
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Elliptical Objects by a Regular Network of
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*Consultants Bureau
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2 Oct 64
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Gamma Function and the Probability Function of χ^2 ,
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~~Gamma-Funktsii i Funktsii Veroiatnosti χ^2~~ , Moscow-
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Scientific - Mathematics

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Faddeeva, V. N. and Terent'ev, N. M.
TABLES OF VALUES OF THE FUNCTION $w(z)$ FOR
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Order from FP \$15.00

Trans. of mono. [Tablitsy Znachenii Funktsii ... ot
Kompleksnogo Argumenta, Moscow, 1954, 268p.].
Another trans. is available from OTS or SLA \$4.60
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DESCRIPTORS: *Functions, *Tables, Theory, Inte-
grals, Series, Continued fractions.

(Mathematics, TT, v. 7, no. 3)

I. Faddeeva, V. N.
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III. Title: International ...
IV. Pergamon Press, Inc.,
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Order from OTS or SLA \$2.60

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DESCRIPTORS: *Geodesics, *Gravimeters, Mapping,
Geophysics, Triangulation, Terrestrial magnetism.

(Earth Sciences--Geodesy, TT, v. 9, no. 11)

- I. Title: Pamir
- I. Zhongolovich, I. D.
- II. Ochapovskii, B. L.
- III. Title: Gravimetric ...
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CIA/FDD X-2929

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